DEPARTMENT OF THE NAVY
NORTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
BUILDING 77L, U.S. NAVAL BASE
PHILADELPHIA, PENNSYLVANIA 19112-5094

IN REPLY REFER TO
5090
Ser 1254/1423/FL
JUN 11 1991

U. S. Environmental Protection Agency
Region I
Ms. Carol Keating
Remedial Project Manager
Hazardous Waste Management Division (HAN)
JFK Building
Boston, MA. 02203

Dear Ms. Keating:

This letter presents the analytical results of the verification sampling performed April 11, 1991 with respect to the removal action conducted at sites 12 and 14.

Former oil spills from electrical transformers stored in Buildings 38 and 316 resulted in the removal and disposal of PCB contaminated concrete, asphalt and subgrade materials from floors inside the warehouse. The removal area in Building 316 consists of a concrete pavement area approximately 20 ft. x 20 ft. and a contiguous area approximately 4 ft. x 5 ft. The removal area in Building 38 consists of ah asphalt area approximately 40 ft. x 17 ft. and a contiguous area approximately 5 ft. x 5 ft. The floor consists of 6-inches of reinforced concrete in Building 316 and 3-inches of asphalt in Building 38. The removal of PCB containing material included all pavement down to subgrade plus an additional 6-inches of subgrade at both buildings.

On April 11, 1991 TRC conducted sampling to verify and provide documentation of a complete removal and post removal decontamination. The post removal verification sampling included the collection of concrete and asphalt chip samples, wipe samples, soil samples, and associated quality control (QC) samples. At Building 38, three asphalt chip samples were collected around the perimeter of the excavation, five soil samples were collected within the excavation and two wipe samples were collected from the asphalt floor outside the excavation area (see Figure 1). At Building 316, four concrete chip samples and two wipe samples were collected around the perimeter of the excavation, and four soil samples were collected within the excavation area. Wipe sample W-1 was collected off of a column adjacent to the excavation while wipe sample W-2 was collected off of the concrete floor outside the excavation area (see Figure 2).

All samples were collected according to the procedures outlined in the Quality Assurance Project Plan (QAPP) dated December 1990. Soil samples were collected from a depth of 0 to 2 inches below grade. Chip samples were collected from a depth of approximately 0 to 1/2 inch below grade. All samples were analyzed

for PCBs by method 8080 (SW-846 3rd edition). One field duplicate was collected for each of the three sample types collected during the confirmation sampling and are identified in the analytical results tables. Two field blanks were collected during the confirmation sampling. One field blank was collected off of the decontaminated sampling equipment used during the soil and chip sampling event. The second field blank was a wipe sample consisting of a solvent soaked gauze pad placed into an appropriate sample container. All of the sample analyses were conducted according to U. S. EPA approved methods by Compuchem Laboratories in Research Triangle Park, NC.

The analytical results for soil, chip and wipe samples collected during this round of confirmation sampling for Building 38 and 316 are listed in Tables 1 and 2, respectively. Full analytical information is included as Attachment A.

After reviewing the verification results the Navy has written an amendment to TRC Consultant Inc. contract which calls for TRC to develop a plan and perform pre-removal chip sampling at sites 12 and 14. The objective of the chip sampling plan is to determine the horizontal extent of PCB contamination at these sites. The total amount of chip samples to be taken between the sites should range between 25 to 30 samples but not to include the QA/QC samples. The furthest chip sample shall not extent further than 25 feet away from the pavement saw cut boundary.

If you have any additional questions please feel free to contact Francisco A. La Greca at 215-897-6280.

Sincerely,

Al Haring, PE
Head, Restoration Management Section

Encl:
(1) Figure 1. Site 12, Building 38 Sample Locations
(2) Figure 2. Site 14, Building 316 Sample Locations
(3) Table 1 Building 38 Soil, Chip and Wipe Analytical Results
(4) Table 2 Building 316 Soil, Chip and Wipe Analytical Results
(5) Attachment A -- Analytical Chemical Data Sheets

Copy to: (w/o encl)
NCBC Davisville (Mr. Lou Fayan)
TRC - ECI (Mr. Robert Smith)

Internal Copy: (w/encl)
1423/FLG
1422/JS